Amendments to the claims:

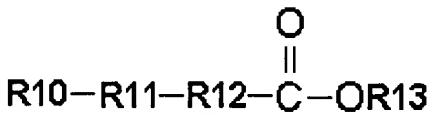
This listing of claims will replace all prior versions, and listings, of the claims in this application.

Listing of claims:

1. (Currently Amended) A method of inducing production of isoflavones in a plant comprising:

applying to the surface of at least part of a plant, which plant is capable of producing an isoflavone, a biologically effective amount of a composition comprising a nuclear receptor ligand, wherein said nuclear receptor ligand is a peroxisome proliferator having structure V below~~;~~:

V



~~Wherein~~ wherein R10 is an aromatic ring or rings, or a substituted aromatic ring or rings,

R11 is an O or S,

R12 is a branched ~~or linear~~ aliphatic chain comprising ~~1-8 carbons~~ from 1 to 8 carbon atoms, and

R13 is a hydrogen or an aliphatic chain comprising from 1 to 5 carbon atoms.

2-9. (Withdrawn)

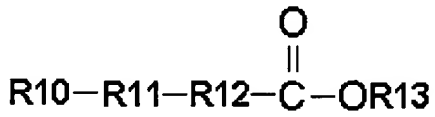
10. (Canceled)

11. (Currently Amended) The method of claim 1, wherein the peroxisome proliferator is ~~selected~~ chosen from ~~the group consisting of~~ clofibric acid, ciprofibrate, and 2-(o-chlorophenoxy)-2-methylpropionic acid (CPMPA).

12. (Currently Amended) A method of inducing disease resistance in a plant comprising applying to the surface of at least part of a plant, which plant is capable of producing an isoflavone, a biologically effective amount of a composition comprising:

a) a nuclear receptor ligand, wherein said nuclear receptor ligand is a peroxisome proliferator having structure V below,

V



~~Wherein~~ wherein R10 is an aromatic ring or rings, or a substituted aromatic ring or rings,

R11 is an O or S,

R12 is a branched ~~or linear~~ aliphatic chain comprising ~~1-8 carbons~~ from 1 to 8 carbon atoms,

R13 is a hydrogen or an aliphatic chain comprising from 1 to 5 carbon atoms; and

b) one or more compounds that i) enhance the release of isoflavones from ~~a~~ sugar ~~conjugate~~ conjugates, ii) enhance the incorporation of aglycones into glyceollin, or iii) enhance the release of isoflavones from ~~a~~ sugar ~~conjugate~~ conjugates and incorporation of aglycones into glyceollin.

13. (Withdrawn)

14. (Currently Amended) The method of claim 12, wherein the enhancing compound is a copper salt or a fragment of the naturally ~~occuring~~ occurring cell wall glucan from ~~the pathogen~~ *Phytophthora sojae.*

15. (Currently Amended) The method of claim 1, wherein the composition further comprises one or more compounds ~~selected~~ chosen from ~~the group consisting of a~~ phytologically acceptable ~~diluent or adjuvant~~ diluents and adjuvants.

16. (Currently Amended) The method of claim 1, wherein the composition further comprises one or more active chemicals ~~selected~~ chosen from ~~the group consisting of a herbicide~~ herbicides, ~~an insecticide~~ insecticides, ~~a fungicide~~ fungicides, and ~~a bacteriocide~~ bacteriocides.

17. (Currently Amended) The method of claim 1, wherein the composition is applied to the plant stem, the plant root, the plant leaf, or combinations thereof.

18. (Currently Amended) The method of claim 1, wherein the composition is applied to a seed or a seedling.

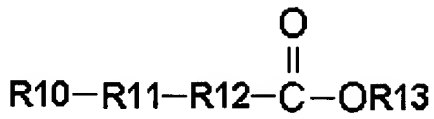
19. (Currently Amended) The method of claim 1, wherein the composition is applied to a legume ~~selected~~ chosen from ~~the group consisting of~~ alfalfa, lima bean, pinto bean, chickpea, peanuts, and soybean.

20. (Currently Amended) The method of claim 19, wherein the legume is soybean.

21. (Currently Amended) A composition for inducing disease resistance in a plant or seed, comprising:

(a) one or more nuclear receptor ligands~~, wherein said nuclear receptor ligands are peroxisome proliferators~~ having structure V below~~,~~:

V



~~Wherein~~ wherein R10 is an aromatic ring or rings, or a substituted aromatic ring or rings,

R11 is an O or S,

R12 is a branched ~~or linear~~ aliphatic chain comprising ~~1-8 carbons~~ from 1 to 8 carbon atoms,

R13 is a hydrogen or an aliphatic chain comprising from 1 to 5 carbon atoms; and

(b) one or more enhancing compounds ~~which~~ that i) enhance the release of isoflavones from ~~a~~ sugar ~~conjugate~~ conjugates in the plant or seed, ii) enhance incorporation of aglycones in the plant or seed into glyceollin, or iii) enhance release of isoflavones from ~~a~~ sugar ~~conjugate~~ conjugates in the plant or seed and incorporation of aglycones in the plant or seed into glyceollin.

22. (Withdrawn)

23. (Currently Amended) The composition of claim 21, wherein the enhancing compound is a copper salt or a fragment of the naturally occuring cell wall glucan from ~~the pathogen~~ *Phytophthora sojae.*

24-43. (Withdrawn)